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We propose a **semantic** model for client-side **caching** and **replace**- ment in a client-serverdatabasesystemand comparethis approach to page **caching** and tuple **caching** strategies. Our **caching** model is based on, and derives its advantages from, three key ideas. First, the client maintains a **semantic ...**
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... Another different **replacement** policy is used in [3]. The victim is selected according to the access probabilities which are predicted by observing the **data** access history. Moreover, [5] utilizes **semantic** locality in **semantic caching replacement**. For each **cached semantic ...**
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... DBProxy's local **data cache** is a stand-alone database engine that maintains partial but **semantically** con- sistent materialized views of previous query results. **...** The common table adds new challenges to **cache replacement** as the underlying **data** is shared across results. **...**
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... of this possibility can significantly enhance the performance of location-dependent **data caching**. As a matter of fact, the invalidation information in our methods can be considered a kind of **semantic** description which could improve **cache** hit rates. **Cache replacement** policies for **...**
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... For example, the performance of page level **caching** is extremely sensitive to teh way **data** is clustered into pages. In this study, we investigate the **semantic** locality of the queries submitted by the client and propose a novel **caching** scheme - **semantic caching** . The **...**
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... We use similar ideas in our **replace**- ment policies. **...** and the notion of **semantic data** regions is natural, One of the drawbacks of **semantic caching** is that the **cache** has to main- tain information about the **cached semantic** regions. **...**
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... Each **cache** fragment is associated with a **semantic** description and a summarized profile of access

pat- terns for **cache** management. **...** Maintaining a coarse **cache** fragment by **caching** all **data** items of a result will affect **cache** hit and **cache** utilization, since not all **data** items **...**
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... regions. A **semantic** region groups together **semantically** related **data** covered, for exam- ple, by a user query. Moreover, the access informa- tion and **cache replacement** are managed at a unit of **semantic** regions [14]. When **...**
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